

# CHEM-PLATE INDUSTRIES INCORPORATED

## TRICHROMAX<sup>®</sup> EBONIZE Z

### A TRIVALENT BLACK COATING FOR ZINC AND ZINC ALLOYS

- **TRICHROMAX<sup>®</sup> EBONIZE Z** is a very corrosion resistant TRIVALENT chrome based system with a silicate topcoat designed to protect galvanized surfaces from corrosion which *is totally free of hexavalent chromium or toxic compounds of any kind and closely resembles black chromate in appearance.*
- **TRICHROMAX<sup>®</sup> EBONIZE Z** will achieve 120 hours to White Corrosion and 480 hours to Red Rust over 10 microns of zinc plating.
- **TRICHROMAX<sup>®</sup> EBONIZE Z** *torque/tension* is about a coefficient of friction of 0.11-0.13.
- **TRICHROMAX<sup>®</sup> EBONIZE Z** may be applied over *mechanical plating, hot dip galvanize, electrogalvanized (zinc plating) or any zinc alloy.*
- **TRICHROMAX<sup>®</sup> EBONIZE Z** is applied over *barrel* zinc plated articles by simple immersion and then dried in standard spin drying equipment and can be baked or air dried.
- **TRICHROMAX<sup>®</sup> EBONIZE Z** is very flexible while providing toughness and chip resistance at the same time.
- **TRICHROMAX<sup>®</sup> EBONIZE Z** will **NEVER** fill recesses.

1800 Touhy , Elk Grove Village, IL. 60007 ☎: 847.640.1600 ☎:847.640.1699  
Where Excellence Sets The Standard

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*A TRIVALENT BLACK COATING FOR ZINC AND ZINC ALLOYS*

### COEFFICIENT OF FRICTION BULLETIN FOR ZINC EBONIZE<sup>™</sup> TRIVALENT BLACK FINISHES

Many customers have asked about the coefficient of friction of the **EBONIZE<sup>™</sup>** finishes and also the K-Factor. There is also interest in knowing what the old hexavalent finishes were in relation to these numbers. The following chart should clarify these questions.

<b>FINISH</b>	<b>TYPE OF TOPCOAT</b>	<b>COEFFICIENT OF FRICTION</b>	<b>K-FACTOR</b>	<b>TORQUE @28.3Kn</b>
HEX BLACK/O.D.	NONE	0.24-0.28	0.30-0.34	86-97
<b>EBONIZE<sup>™</sup>Z/NISSAN</b>	ORGANO-SILICATE	0.19-0.28	0.21-0.28	70-80
<b>EBONIZE<sup>™</sup>HCR</b>	WAX EMULSION	0.12	0.15-0.17	44-49 <sup>1</sup>
<b>EBONIZE Z</b>	SILICATE	0.11-0.13	0.13-0.17	40-52

All of the **EBONIZE<sup>™</sup> BLACK** finishes exceed 120 hours to white corrosion and 500 hours to red when tested to ASTM B-117 salt spray *and will NOT fill recesses or cause washers to stick.*

<sup>1</sup> This finish conforms to the torque requirements of GMW 3044 and Ford WZ 100.

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